

مراجعة كبمياء عضوية Chem 111

لطلاب السنة التحضيرية بجامعة الملك خالد بأبها _ المحالة

2015

عمل تطوعي طلابي

لا تنسى زيارة المدونة http://kku-a.blogspot.com و نشر المدونة بين الطلاب لتعم الفائدة

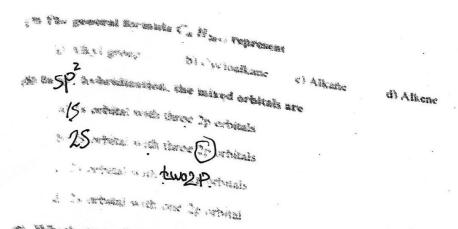
أعتذر عن رداءة جودة الصور ولكن الصور تم تصويرها بواسطة جوال ثم طبعت و صورت عدة مرات وهكذا ، الحلول من عمل الأستاذ صلاح .

> أغلب الأسئلة هي من اختبارات التيرم الأول لسنة 2014-2015 أتمنى لكم التوفيق

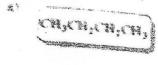


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3) 2 (1) The valence ele	etrons (onter shell eld b) 4 Howing orbital pairs	etrons) of 7 ¹⁴ 14 lb	d) 2	
a) $2p_{\rm s}$ and $2p_{\rm s}$	b) 2s and 2p _s	c) 2d and 2p.	d) Is and 2s	
(3) The number of	terfinry carbon in (2	-Methyl-4-isopre	ovlhepiane) ic	
a) 0	b) 4		d) 2	
(4) Hew many Hyd	rogen atoms in this	formula?		
a) 6			ρн	
b) 8		140,	t2 0 0	1000000
c) 4		/	The state of the s	A CONTRACTOR
d) 5			но	
		- Constitution of the Cons	Vitamin C	Philadella Committee Commi
		The section of		
(5) What is the ma	ximum number of	covalent bonds	hat the carbon aton	
2) 3	b) 4	c) I	d) 2	
		to a stand a standar to	iling noint?	
6) Which of the following	lowing compounds	Bus introduction	dancono	
n) Hexaus			ylpropane	
	vinculars	- ii) 2-Met	oy i pentane	





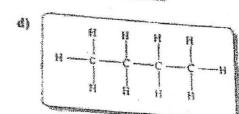
the later of the following structural formulas represents bond-line



1



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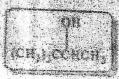
(18) What is the value of x in Colly (cycleshane)

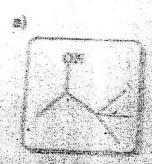
20 2

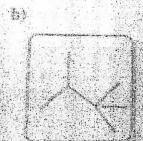
b) 16

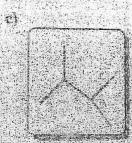
d) 20

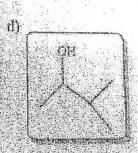
(11) Which of the following bond-line structural formula represent the is developed to a deposed structural formula?













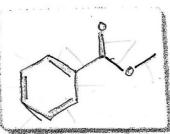
122 the bare of the following sensor as matter of formation represents the

(CH3) CH (CH2)3 CH (CH3) CH3



(cH3)2 6H(CH2)3 CHCH2H3 (1611)4 11414

13. Here many upmer to bready are present in the following makes the



(14) How many of (2) bonds are present in L-Methylpentane?

- 42 3

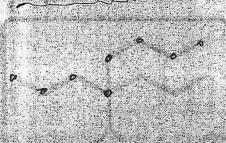
- 49 2

(15) What is the conferrales formula of 1-bitchest-berry bentann's

- get aller
- 9 26
- c) Collin
- **动毛科**

(16) What is the consense some of I-Maley property

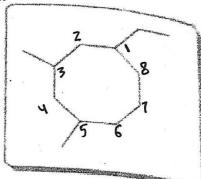
- AND ESCAPERATIONS
- M Indiana
- cilicanamic di Negeriani





(18) The IUPAC name of the following compound is:

- a) 1.3-Dimethyl-5-ethylcyclooctane
- b) 1-Ethel-3,5-dimethyleyelooctane
- e) 1-Ethyl.3-5, dimethylcyclooctane
- d) 1-Ethyl-3,5-Dimethyleyelooctane

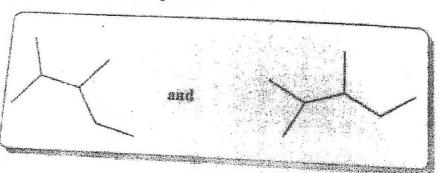


(19) Neopentane and 2-Methylbutane represent:

- a) Different compounds
- c) Structural isomers

- b) Constitutional isomers
- d) All correct

(20) The following formulas represent



- a) Chain isomers
- c) Same compound

- b) Positional isomers
- d) Germetrical isomers





(12)

3

b

(6) b

17

19) d

20 C

9





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- 2- # 13-Br bond is cleaved in honoralytic way it produces ---
 - a) W as electrophile and Br as nucleophile
 - b) R'as anciembile and Br' as electrophile
 - e) B' as free radical and Br as free radical
 - d) H' as asicleophile and Br as electrophile

I Which of the following statement is <u>incorrect</u> according to chlorination of ethane (balogonation)."

- a) It is give one product.
- b) It is a substitution reaction
- e) It is a free radical reaction
- d) It is non catalyzed reaction
- + Which of the following statement is TRUE for alkenes?

Saturated hydrocarbons with one or more double bond.

- b) Unsaturated hydrocarbons with one double bond.
- c) Ensaturated hydrocarbons with one double bonds.
- d) Cyclic compounds.

5- Ocimene is a triene found in the essential oil of many plants. How many z-bonds in ocimene?

- 213
- b)
- e) 11
- 111



6- The HPAC name of the following alkene



a) 2-Ethylhütene

b) 2-Ethyl-1-butene

c) 1-butene

d) 2-Methy-1-pentene

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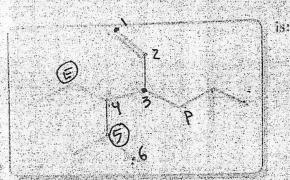
7-The ICEAC many or the full arring all one

- al J. Mario I. J. peniene
- b))Cis-4-aucthyl "-penieno
 - c) Cis-2-mediyle spenione
 - MIA Methyl Lepontene

SThe HPAC name of the following alkene

- a) 3-Ethyl-5-methyl-1-vinetheprane
- b) Cis-4-Ethy (Semethyl-Appropri delicycia
- c) 4-Ethyl-5-methyl-5-propyl 1-hexene
 - d) Trans-I-ethyl 5 methyl 3 propyl (shexene



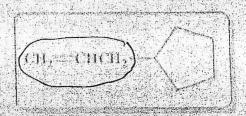


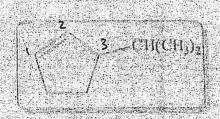
9-The common jiame of the following compound is:

- a) Yinyleyelopentane
- b) I-Propenyley clopentane
- felally levelopentane
 - d) Cyclopentylpropenc



- a) 1 Isopropyl 2-cyclopentone
- b) 3-Isopropylevelopentane
- alsopropyleyelopentene
- d) 2 Isopropyleyelopentene





- 11-Which of these compounds not exhibit geometric isomerism?
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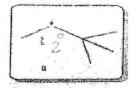


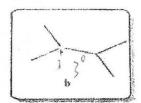


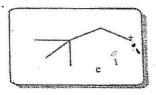
- 12-Cis and trans isomors can be classified as:
- a) Same compounds
- (b) Cometrical isomers
- c) Structural isomers
- d) b÷c

13-Which of the following statement is <u>INCORRECT</u> for hydrogenation of alkenes:

- (a) It is an electrophilic addition reaction
- b) Platinum act as catalyst -
- e) Convert unsaturated hydrocarbon to saturated hydrocarbon
- d) It is an addition reaction.
- 14 Arrangement of the following carbocations in order of increasing stability:

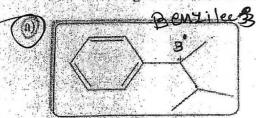


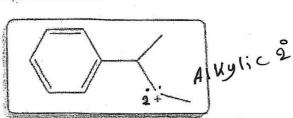




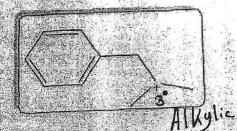
- a) a < b < e
- b) b < c < a
- c) b < a < c
- (d)e < a < b

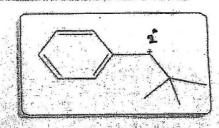
Which of the following carbocations is the most stable carbocation:



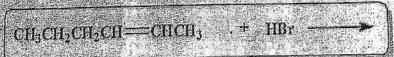








16-The main product of the following reaction is:



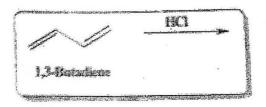
- a) 2-Bromohexane
- b) 3-Bromohexane e) 1,2-Dibromohexane



17. The diene in which the double boards are alternative with single boards is called:

- a) Conjugated dienes
- by Commisted dienes
- e) Isolated disacs
- 4 2+6

18-The following reaction give:



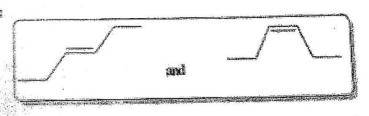
a) 3-Chlore-1-batene

b) 1-Chloro-1-butene

e) 4-Chloro-1-butene

d) a and b

19-These two compounds are:



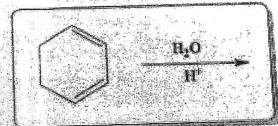
- eromosi Isaadika'i (6
- b) Constitutional isomers

e) Chain isomers

d) Geometrical isomers

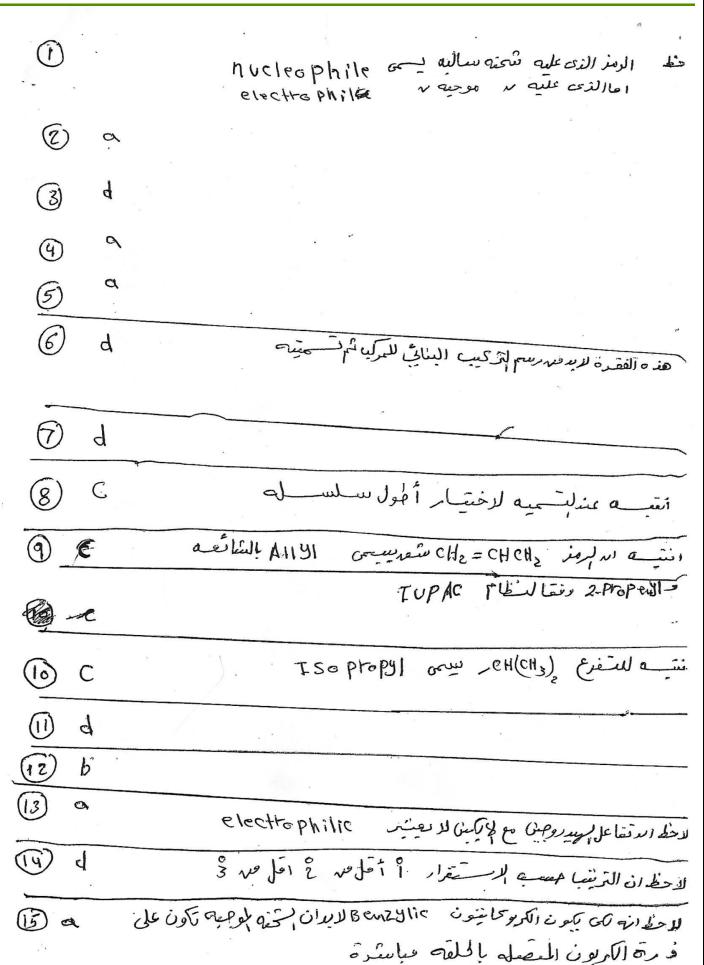
20-How many product(s) in the given reaction

- a) 3
- h) 7
- c) T
- d) (b



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هما<mark>ده هسال گرکانچ گردستال (ساک هسال گراینچ اللبه کالله)</mark> (kw-a.blogspot.com - عمل تطوعت طلابت



(e) 4	فى عدد H و احتلافهم في الذُّكامِل الرُّخوى : يعلى ناتحين	ئے ساوی c = 3
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(T) a	ablic cies alternativ	و قطحن في
(18) d	ا کی الدامن منتبع تم علی الموضع ا کی ع	
(19) d	cis ولأخر cras	لے ان احدالمركسين
(26) C	Ho على لموضعت 1 25	المنافة الم ك
ركب واجد .	کای علی لمرضیعتی ۱ کا علی مر ا کا کے 4 معلی مر ا کا 4 سین سینی نفس الاسم : لیا دج م	والم والمستانة المرا



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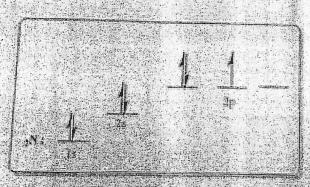
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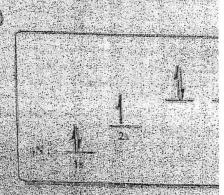
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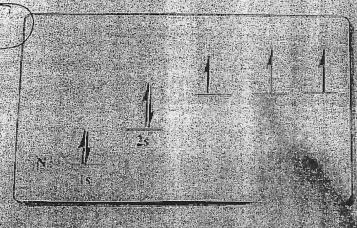
- Mass number equal to-
- i) Number of protons
 - c) Number of electrons

- b) Number of neutrons
- 2- Which of the following orbital is not possible n) 1s . b) 2s
- c) 2n
- The best electronic configuration of Nitrogen (Atomic number of N =7) is:

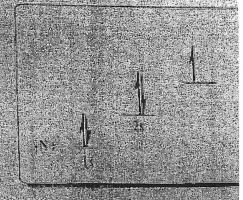
a)







d)

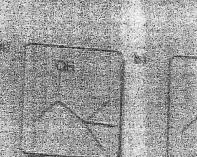


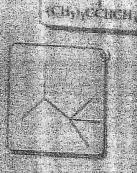


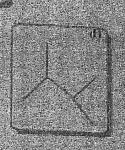
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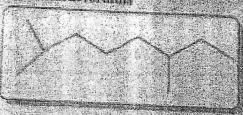








Which of the following condensed structural formula represent the following bond line structural formula



CHAICHEACHT CACH

HOND/GIONAL

(CH)(CH),CHCH),CHCH

Here many sigma (a) and $\mu^{\prime}(\pi)$ bonds are present in the following mokenie?



c) 15 σ, 1 a

d) 18 σ, 2 π







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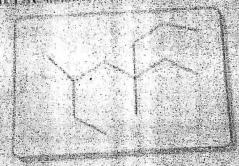
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of Callin Adjustants ar Callar medi 15. What is the common man of the following companies



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In the the REAC name for the following commond



a). Selftin ist, sedimethy lectage eji-propylsk-dimethytheptane

- hj 4.Ethyl-1,6-dimethylociane
 - d) 2-Ethyl-4-methyl-4-propolickane







Political Palentine bests believed marginal



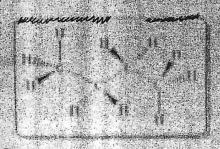
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CHATHACHACHACHA

2,4-Dimethylhexa









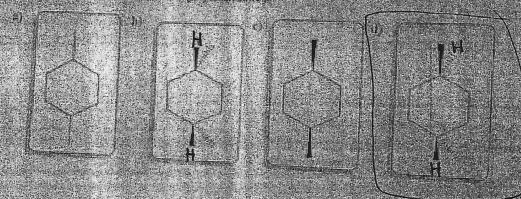


(3) The RPAC name of the compound



- a) I Propid-Assicilas les clapentant
- side destricts propide yelopentane
- higi-shehiji-t-propalcyelopeniam
- A) il-Propyl-4-mentyleyelopentaire

[40] The arraction of thousel. Asthoraby levelation and is



- (5) Which of the following alkanies nave the highest builting point?
- of Hexage
 - 612-Methylpentano

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(6) The following formular represent:



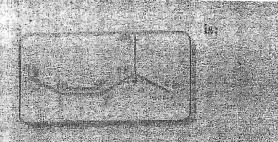
- a) Chair isomers
- el Puiltourl isomers

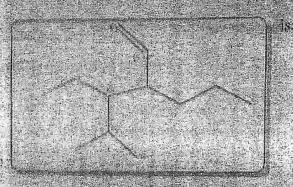
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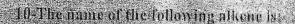
- as 2-Mothed American
- b) Cis-4-nicety t-2-pentene
- c) Cis Ismethyle tepantone
- dist-Alemyl-2-pronone
- 8 The HPAC name of the following afficure
- a) 3-Ethyl-5-methyl-4 yffigetheptone
- b) Cis-t-Ethyl-S-methyl-3-propyl-t-bexene.
- (c) 4-Ethyl-5-methyl-3-propyl-1 become
- al) Trans-d-ethyl-5-methyl-3-propyl t-heaene



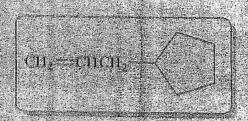


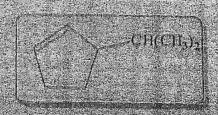
9-The common name of the following compound is:

- a) Finylexelopentane
- b) 1-Proponyleyelopentane
- (c) Mhlevelopentane
- d) Cyclopentylpropene



- a) 1-1sopropyl-2-cyclopeniene
- b) 3-Isopropyleyclopentane
- e) 3-Isopropyleyelopantene
- d): 2-lsopropyleyelopentene





[1-Which of these compounds 401 exhibit geometric isomerls of?

- $[CH_1CH_2CH + CHCH_3]$
- 温肋

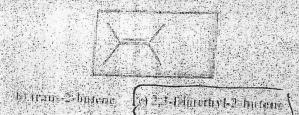


d) h and e;



d) Isoliptune

The The HPAC maniculaties compared is

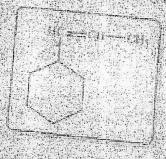


(12) The DIPAC mane of the following alkene;



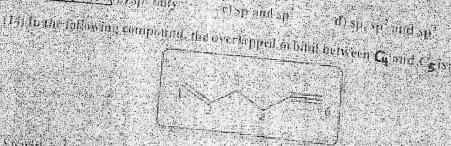
- n) delidiylet,3-dimethylel-octope
- b) 3.5-Dimethyl-Pelkylogicus
- e) 4:Ethylet, tolkmeth, besteme
- il) 13-Minethyl-f-bulyl-t-bevene

(13) Tinespie of hybridization exhibited by eagli combination in



Misjrianje

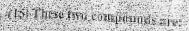
c) sp and sp



of the with spirits and the with the









- ar Different compounds
- t)Structurationers

- li) same compounds
- d) Geometrical isomers
- (18) The first arrangement of the following curbocations in order of increasing xiability



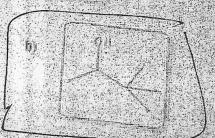




If Tellis major deposite productis) of the following resistion is





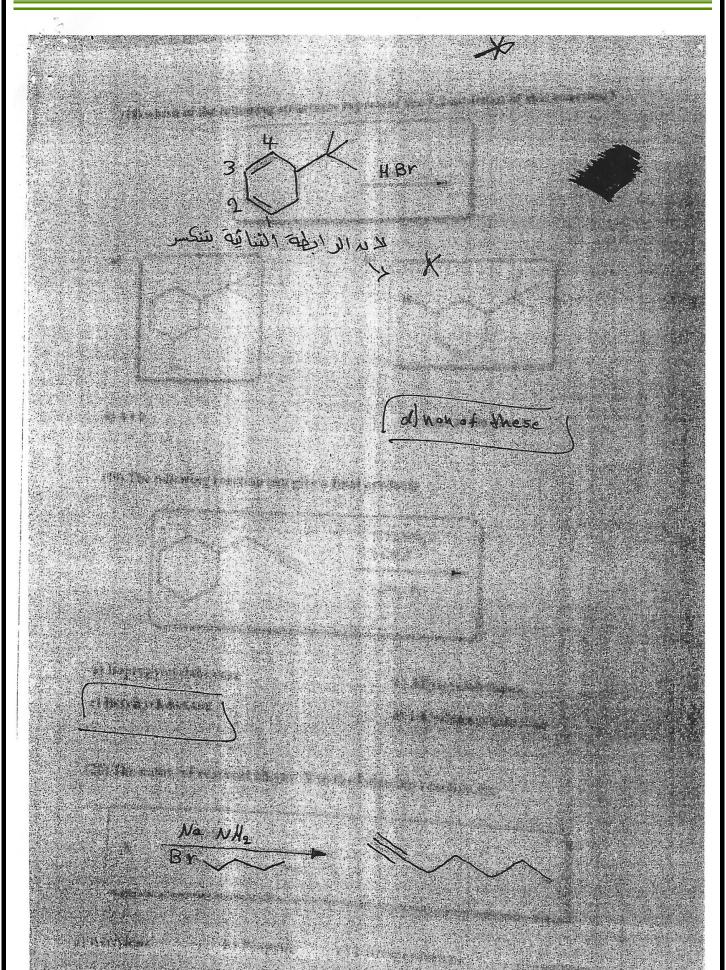


d) are



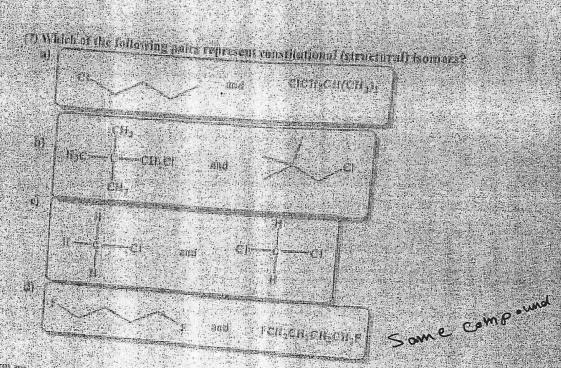
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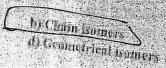
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(S) The following formulas represent:



- of Fureflound group isomers
 - e) Posinonal isomers



- (9) Consider chloridation of propone, what is the type of reserion?
 - a) Electrophilic substitution reaction
 - e) Pree radical substitution reaction
- (10) The common units of this compound is
- b):Electrophilic addition reaction
- d) krec radical addition reaction



- u) Isodiureleje
- ht 2 Methy bropens
- e) Propylenc
- d) ash

this compound is

- a) 4-Ethyl-3.3-dimethylhexane
 - c) 3.2.4-Primethytheptane
- b) 3.4.4-Trimuhylkeptane
 - di 4.4-Dimethylocture